

Ph.D. Course • Aquatic Ecology and Climate Change • 26-30 April 2004

Brorfelde Fieldstation, Tølløse, Denmark

	26 April	27 April	28 April	29 April	30 April
09:00 – 10:00		Global change and the large-scale ocean circulation <i>Jørgen Bendtsen</i>	The importance of mixing for lake productivity, models linking mixing and productivity, more general about lakes and climate change <i>Sebastian Diehl</i>	Climate, land use and runoff: A Danish perspective <i>Brian Kronvang</i>	Paleolimnology, Arctic lakes <i>John Andersson</i>
10:00 – 11:00		Seminar¹⁾ [A] & [B]	Seminar¹⁾ [C] & [D]	Seminar¹⁾ [E] & [F]	Seminar¹⁾ [G]
11:00 – 12:00	Arrival	Farvandsmodellen, the Baltic Sea and climate change <i>Peter Rasch</i>	The impact of climate change on the dynamics of lake plankton communities <i>Glen George</i>	Biological structure and function of lakes in climate gradients <i>Erik Jeppesen</i>	Construction of a conceptual model with the minimum process and interaction parameters linking climate and aquatic ecosystems <i>Morten Søndergaard</i>
12:00 – 13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00 – 14:00	Introduction <i>Torkel Gissel Nielsen</i>	Impact of climate change on marine ecosystems <i>Gregory Beaugrand</i>	Microbial communities along a temperature gradient <i>Kirsten Christoffersen</i>	Effects of climate change on fish distribution and dynamics in the North Atlantic <i>Keith Brander</i>	Departure
14:00 – 15:00	Global climate modelling and scenarios and uncertainties <i>Susanne Nawrath</i>	Impact of climate change on water column structure and productivity <i>Katherine Richardson</i>	Tropical lakes and climate change <i>Catherine M. O'Reilly</i>	Climate variability and cod production in the Baltic Sea <i>Brian MacKenzie</i>	
15:00 – 16:00	Modelling climate in the past, present and future <i>Ole Bøssing Christensen</i>	Seminar¹⁾ [B] & [A]	Seminar¹⁾ [D] & [C]	Seminar¹⁾ [F] & [E]	
16:00 – 17:00	Implications of global change on atmospheric transport of contaminants to the Arctic <i>Jesper Christensen</i>	Potential implications of climate changes in the arctic pelagic food web <i>Torkel Gissel Nielsen</i>		Climate variability and sprat production in the Baltic Sea <i>Brian MacKenzie</i>	
18:00 – 19:00	Dinner	Dinner	Dinner	Dinner	
20:00 -	<i>To be announced.</i> <i>Dorthe Dahl-Jensen</i>	Student presentations²⁾	Student presentations²⁾	Student presentations²⁾	

1) Seminars:	[A] Box model of the thermohaline circulation, computer demonstration	<i>Jørgen Bendtsen</i>
	[B] Monitoring marine ecosystems (selection of variables, numerical techniques, sampling strategies)	<i>Gregory Beaugrand</i>
	[C] Physical limnology; impact of climate change on lakes, airborne remote sensing and catchment processes	<i>Glen George</i>
	[D] <i>To be announced</i>	<i>Sebastian Diehl</i>
	[E] Incorporating environmental information into fisheries assessments and management advice	<i>Brian MacKenzie/Keith Brander</i>
	[F] <i>To be announced</i>	
	[G] Scaling the effects of climate versus land-use change on lake communities: the role of variance partitioning	<i>John Andersson</i>

2) The students are expected to prepare a 15-minute presentation of their Ph.D. project.